BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, YELAHANKA DIVISION

Name of Work: Improvements and Development of Park at Vinivini Shastry Layout in Ward No.01 of Yelahanka Sub Division.

DETAILED ESTIMATE

Estimated Cost= 5000000.00

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
1	Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 KSRB 2-1.1: – do – Ordinary soil (KPWD SR 2018-19, Page No.6, Item No.2.1)								
		Cum							
	Rate Analysis								
	Basic Rate	249.00							
	Area Weightage @6%	14.94							
	Total Amount	**263.94**							
	Park-1								
			1	23.40	20.00	0.30	140.40		
			1	63.90	9.50	0.30	182.12		
	Park-2								
			1	24.10	14.60	0.25	87.97		
						Total Quantity	**410.48**	**263.94**	**108342.09**
2	KSRB 2-2 Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications (KPWD SR 2018-19, Page No.6, Item No.2.3)								
		Cum							
	Rate Analysis								
	Basic Rate	299.00							
	Area Weightage @6%	17.94							
	Total Amount	**316.94**							
	For SSM Foundation								
	Park-1								
			1	23.00	0.90	0.80	16.56		
			1	24.00	0.90	0.80	17.28		
			1	12.00	0.90	0.80	8.64		
			1	63.00	0.90	0.80	45.36		
			1	88.50	0.90	0.80	63.72		
	Park-2								
			1	24.10	0.90	0.80	17.35		
			1	14.60	0.90	0.80	10.51		
			1	27.00	0.90	0.80	19.44		
			1	13.00	0.90	0.80	9.36		
						Total Quantity	**208.22**	**316.94**	**65994.51**
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2(KPWD SR 2018-19, Page No.13, Item No.4.2)								
		Cum							

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Rate Analysis								
	Basic Rate	5194.00							
	Area Weightage @6%	311.64							
	Total Amount	**5505.64**							
	For SSM Foundation								
	Park-1								
			1	23.00	0.90	0.15	3.11		
			1	24.00	0.90	0.15	3.24		
			1	12.00	0.90	0.15	1.62		
			1	63.00	0.90	0.15	8.51		
			1	88.50	0.90	0.15	11.95		
	Park-2								
			1	24.10	0.90	0.15	3.25		
			1	14.60	0.90	0.15	1.97		
			1	27.00	0.90	0.15	3.65		
			1	13.00	0.90	0.15	1.76		
	For Path Way								
	Park-1								
			0	22.00	2.20	0.15	0.00		
			0	23.00	2.20	0.15	0.00		
			0	11.00	2.20	0.15	0.00		
			0	62.00	2.20	0.15	0.00		
			0	87.50	2.20	0.15	0.00		
	Park-2								
			0	23.10	1.90	0.15	0.00		
			0	13.60	1.90	0.15	0.00		
			0	26.00	1.90	0.15	0.00		
			0	12.00	1.90	0.15	0.00		
							Total Quantity	**5505.64**	**214951.20**
4	KSRB 5.2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 - do - cement mortar 1:6 KBS 5.1.13 (KPWD SR 2018-19, Page No.25, Item No.5.6)								
		Cum							
	Rate Analysis								
	Basic Rate	4596.00							
	Area Weightage @6%	275.76							
	Total Amount	**4871.76**							
	For New Compound								
	Step-1								
	Park-1								
			1	23.00	0.75	0.20	3.45		
			1	24.00	0.75	0.20	3.60		
			1	12.00	0.75	0.20	1.80		
			1	63.00	0.75	0.20	9.45		
			1	88.50	0.75	0.20	13.28		
	Park-2								
			1	24.10	0.75	0.20	3.62		
			1	14.60	0.75	0.20	2.19		
			1	27.00	0.75	0.20	4.05		
			1	13.00	0.75	0.20	1.95		
	Step-2								
	Park-1								
			1	23.00	0.60	0.20	2.76		
			1	24.00	0.60	0.20	2.88		
			1	12.00	0.60	0.20	1.44		
			1	63.00	0.60	0.20	7.56		

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			1	88.50	0.60	0.20	10.62		
	Park-2								
			1	24.10	0.60	0.20	2.89		
			1	14.60	0.60	0.20	1.75		
			1	27.00	0.60	0.20	3.24		
			1	13.00	0.60	0.20	1.56		
	Step-3								
	Park-1								
			1	23.00	0.45	0.20	2.07		
			1	24.00	0.45	0.20	2.16		
			1	12.00	0.45	0.20	1.08		
			1	63.00	0.45	0.20	5.67		
			1	88.50	0.45	0.20	7.97		
	Park-2								
			1	24.10	0.45	0.20	2.17		
			1	14.60	0.45	0.20	1.31		
			1	27.00	0.45	0.20	2.43		
			1	13.00	0.45	0.20	1.17		
						Total Quantity	104.11	4871.76	507208.68
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (KPWD SR 2018-19, Page No.25, Item No.5.9)								
		Cum							
	Rate Analysis								
	Basic Rate	5483.00							
	Area Weightage @6%	328.98							
	Total Amount	**5811.98**							
	For Basement								
	Step-1								
	Park-1								
			1	23.00	0.45	0.20	2.07		
			1	24.00	0.45	0.20	2.16		
			1	12.00	0.45	0.20	1.08		
			1	63.00	0.45	0.20	5.67		
			1	88.50	0.45	0.20	7.97		
	Park-2								
			1	24.10	0.45	0.20	2.17		
			1	14.60	0.45	0.20	1.31		
			1	27.00	0.45	0.20	2.43		
			1	13.00	0.45	0.20	1.17		
						Total Quantity	26.03	5811.98	151274.22
	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications. (KPWD SR 2018-19, Page No.256, Item No.34.12.2)								
		Sqm							
	Rate Analysis								
	Basic Rate	140.00							
	Area Weightage @6%	8.40							
	Total Amount	**148.40**							
	For Basement								
	Step-1								
	Park-1								
			2	23.00		0.20	9.20		
			2	24.00		0.20	9.60		
			2	12.00		0.20	4.80		

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			2	63.00		0.20	25.20		
			2	88.50		0.20	35.40		
	Park-2								
			1	24.10		0.20	4.82		
			1	14.60		0.20	2.92		
			1	27.00		0.20	5.40		
			1	13.00		0.20	2.60		
						Total Quantity	99.94	148.40	14831.10
7	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD SR 2018-19, Page No.13, Item No.4.6)								
		Cum							
	Rate Analysis								
	Basic Rate	5422.00							
	Area Weightage @6%	325.32							
	Total Amount	5747.32							
	Coping Concrete								
	Park-1								
			2	23.00	0.45	0.100	2.07		
			2	24.00	0.45	0.100	2.16		
			2	12.00	0.45	0.100	1.08		
			2	63.00	0.45	0.100	5.67		
			2	88.50	0.45	0.100	7.97		
	Park-2								
			1	24.10	0.45	0.100	1.08		
			1	14.60	0.45	0.100	0.66		
			1	27.00	0.45	0.100	1.22		
			1	13.00	0.45	0.100	0.59		
						Total Quantity	22.49	5747.32	129237.11
8	KSRB 14.6 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (KPWD SR 2018-19, Page No.103, Item No.14.6)								
		Sqm							
	Rate Analysis								
	Basic Rate	1053.00							
	Area Weightage @6%	63.18							
	Total Amount	1116.18							
	For Path way								
	Park-1								
			0	22.00	1.50		0.00		
			0	24.00	1.50		0.00		
			0	11.00	1.50		0.00		
			0	63.00	1.50		0.00		
			0	88.50	1.50		0.00		
	Park-2								
			0	23.10	1.50		0.00		

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			0	13.60	1.50		0.00		
			0	26.00	1.50		0.00		
			0	12.00	1.50		0.00		
						Total Quantity	0.00	1116.18	0.00
9	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(KPWD SR 2018-19, Page No.27, Item No.5.30)								
		Nos							
	Rate Analysis								
	Basic Rate	408.00							
	Area Weightage @6%	24.48							
	Total Amount	432.48							
	For Path								
	Park-1								
			0	22.00		"/0.46	0.00		
			0	24.00		"/0.46	0.00		
			0	11.00		"/0.46	0.00		
			0	63.00		"/0.46	0.00		
			0	88.50		"/0.46	0.00		
	Park-2								
			0	23.10		"/0.46	0.00		
			0	13.60		"/0.46	0.00		
			0	26.00		"/0.46	0.00		
			0	12.00		"/0.46	0.00		
						Total Quantity	0.00	432.48	0.00
10	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8(KPWD SR 2018-19, Page No.180, Item No.24.1)								
		Sqm							
	Rate Analysis								
	Basic Rate	80.00							
	Area Weightage @6%	4.80							
	Total Amount	84.80							
	Kerb Painting								
	Park-1								
			0	22.00		0.30	0.00		
			0	24.00		0.30	0.00		
			0	11.00		0.30	0.00		
			0	63.00		0.30	0.00		
			0	88.50		0.30	0.00		
	Park-2								
			0	23.10		0.30	0.00		
			0	13.60		0.30	0.00		
			0	26.00		0.30	0.00		
			0	12.00		0.30	0.00		
						Total Quantity	0.00	84.80	0.00

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
11	Fabrication, providing and erecting in position Hot dip galvanised Grill using 72 x72 x 4mm Sq. GI Pipe frame with top pipe bending in heavy hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised Sq. rod for verticals at 150mm c/c, as shown in the drawing including providing ho dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 72x12mm and 50x6mm arch bent to hot dip galvanised flats the work is inclusive of troughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq rods, GI gorged designs etc., heavy duty hinges are made out of 75mm solid sq block assembled with 20mm dia bearing in three places for each flop. Heavy duty locking arrangements at two places including cost of labour, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the engineer-in-charge of the work.								
		Sqm							
	Approved Rate								
	Park-1								
			1	23.00		1.20	27.60		
			1	24.00		1.20	28.80		
			1	12.00		1.20	14.40		
			1	63.00		1.20	75.60		
			1	88.50		1.20	106.20		
	Park-2								
			1	24.10		1.20	28.92		
			1	14.60		1.20	17.52		
			1	27.00		1.20	32.40		
			1	13.00		1.20	15.60		
						Total Quantity	**347.04**	**9144.00**	**3173333.76**
12	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications..(KPWD SR 2018-19, Page No.123, Item No.15.74)								
		Sqm							
	Rate Analysis								
	Basic Rate	95.00							
	Area Weightage @6%	5.70							
	Total Amount	**100.70**							
	For Fencing								
	Park-1								
			2	23.00		1.20	55.20		
			2	24.00		1.20	57.60		
			2	12.00		1.20	28.80		
			2	63.00		1.20	151.20		
			2	88.50		1.20	212.40		
	Park-2								
			2	24.10		1.20	57.84		
			2	14.60		1.20	35.04		
			2	27.00		1.20	64.80		
			2	13.00		1.20	31.20		
	Gate								
	Park-1		2	2.00		2.00	8.00		
	Park-2		2	2.00		2.00	8.00		
						Total Quantity	**710.08**	**100.70**	**71505.06**

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
13	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 gauge M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with load and lift, loading and unloading charges, etc., complete as per specification.(KPWD SR 2018-19, Page No.45, Item No.7.37)								
		Sqm							
	Rate Analysis								
	Basic Rate	3012.00							
	Area Weightage @6%	180.72							
	Total Amount	3192.72							
	Gate								
	Park-1		1	2.00		2.00	4.00		
	Park-2		1	2.00		2.00	4.00		
						Total Quantity	8.00	3192.72	25541.76
							Total Construction Amount		4462219.00
							Add GST Charges 12%		535466.00
							Sub Total		4997685.00
							Miscellaneous and unforeseen charges etc.L.S		2315.00
							Grand Total		5000000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2018-19 and issuse rate on 01-01-2019

For Qualiex Civil Design & Consultancy

Assistant Engineer
Ward No.01
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. ....50.00 lakhs
....Fifty lakhs only....
....
is accorded under head P-3292
....14th Finance Commission....
....works....
Registered as CE No. .....Subject
to conditions contained in
No. EE/YNK/AS/172/2019-20 ....01/01/2020

Executive Engineer

Technical Sanction
Accorded For R.50.00 lakhs only
Head of A/C P3292
CER NO : 273 Dt: 09.01.2020

TA CE (YNK)